

PMID: 11062439 [PubMed]

and are potentially less immunogenic.

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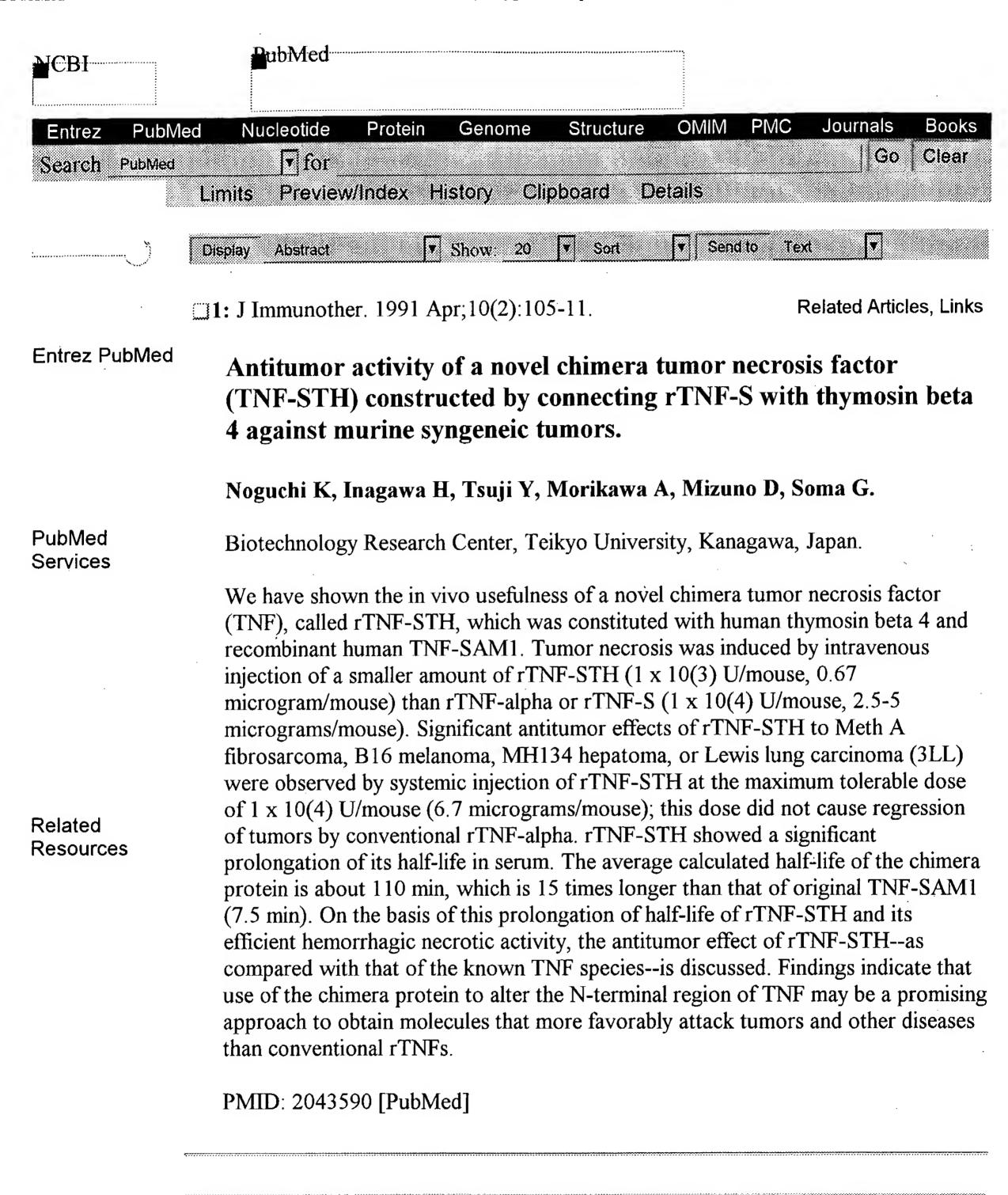
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Abstract

Sequence 1401, Ap Sequence 191303, Sequence 267294, Sequence 262, App Sequence 202397, Sequence 226458, Sequence 251390, Sequence 251390, Sequence 251390, Sequence 254, App Sequence 554, App Sequence 285625, Sequence 285625, Sequence 285625, Sequence 285625, Sequence 267, App Sequence 179, App Sequence 179, App Sequence 180, App

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US-10-046-922-68

Sequence 68, Application US/10046922

Sequence 68, Application US/10046922

Publication No. US20020164667A1

GENERAL INFORMATION:

APPLICANT: Alitalo, Kari

APPLICANT: Alitalo, Kari

APPLICANT: Kubo, Hajime

TILLE OF INVENTION: VEGFR-3 INHIBITOR MATERIALS AND METHODS

FILE REFERENCE: 28967/37084A

CURRENT FILING DATE: 2002-01-15

CURRENT FILING DATE: 2002-01-15

NUMBER OF SEQ ID NOS: 80

SOFTWARE: Patentin version 3.0

SOFTWARE: Patentin version 3.0

SEQ ID NO 68

LENGTH: 8

TYPE: PRT

ORGANISM: peptide

FEATURE:

NAME/KEY: SITE

LOCATION: (4)..(6)

OTHER INFORMATION: X is any amino acid

NAME/KEY: SITE

NAME/KEY: SITE
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OTHER INFORMATION
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Mismatches 0;
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1e+06;
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TITLE OF INVENTION: HIV-Derived HR1 Peptides Mod
TITLE OF INVENTION: Their Use in Therapy to Inl
TITLE OF INVENTION: Immunodeficiency Virus
FILE REFERENCE: TRM-001
CURRENT APPLICATION NUMBER: US/10/664,021
CURRENT FILING DATE: 2003-09-16
PRIOR APPLICATION NUMBER: US 60/414,514
PRIOR FILING DATE: 2002-09-27
NUMBER OF SEQ ID NOS: 82
SOFTWARE: Patentin version 3.2
LENGTH: 6
                                                                                                                                                                                                                                                                                                                                       OTHER INFORMATION: exemplary library CPI-10042
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Pred. No. 1e+
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APPLICANT: Wilson, Carol
APPLICANT: See, Raymond
APPLICANT: Tan Hehir, Christina
TITLE OF INVENTION: Binding Compounds and Mei
FILE REFERENCE: CNS-005
CURRENT APPLICATION NUMBER: US/09/813,653
CURRENT FILING DATE: 2001-03-20
PRIOR FILING DATE: 2000-03-21
PRIOR FILING DATE: 2000-03-21
PRIOR FILING DATE: 2000-03-21
PRIOR FILING DATE: 2000-03-21
NUMBER OF SEQ ID NOS: 44
SOFTWARE: Patentin version 3.0
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Pred. No.
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Publication No. US20040076637A1
GENERAL INFORMATION:
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OTHER INFORMATION: Xaa can be
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LOCATION: (11)..(11)
OTHER INFORMATION: AMIDATION
NAME/KEY: misc feature
LOCATION: (1)..(11)
OTHER INFORMATION: wherein eac
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ORGANISM: Artificial sequence
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LOCATION: (2)...(4)
OTHER INFORMATION: Xaa
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ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: SY
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TYPE: PF
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US-10-046-922-67
; Sequence 67, Application US/10046922
; Publication No. US20020164667A1
; GENERAL INFORMATION:
; APPLICANT: Alitalo, Kari
; APPLICANT: Kubo, Hajime
; TITLE OF INVENTION: VEGFR-3 INHIBITOR MATERIALS AND METHODS
; FILE REFERENCE: 28967/37084A
; CURRENT APPLICATION NUMBER: US/10/046,922
; CURRENT FILING DATE: 2002-01-15
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 67
. LENGTH: 7
Sequence 73, Application US/10046922
Publication No. US20020164667A1
GENERAL INFORMATION:
APPLICANT: Alitalo, Kari
APPLICANT: Koivunen, Erkki
APPLICANT: Kubo, Hajime
TITLE OF INVENTION: VEGFR-3 INHIBITOR MATERIALS AND METHODS
FILE REFERENCE: 28967/37084A
CURRENT APPLICATION NUMBER: US/10/046,922
CURRENT FILING DATE: 2002-01-15
NUMBER OF SEQ ID NOS: 80
SOFTWARE: Patentin version 3.0
SEQ ID NO 73
LENGTH: 10
TYPE: PRT
ORGANISM: peptide library
FEATURE:
NAME/KEY: SITE
LOCATION: (5)...(7)
OTHER INFORMATION: X is any amino acid
NAME/KEY: SITE
LOCATION: (9)...(9)
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NAME/KEY: SITE
LOCATION: (9)...(9)
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; OTHER INFORMATION: X is any amino acid
US-10-046-922-73
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US-09-813-653-23
; Sequence 23, Application US/09813653
; Patent No. US20020064770A1
; GENERAL INFORMATION:
; APPLICANT: Nestor, John
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US-10-046-922-67
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Sequence 1668, Application US/10351641

Sequence 1668, Application US/10351641

Publication No. US20030186874A1

GENERAL INFORMATION:

APPLICANT: Barney, S.

APPLICANT: Guthrie, K.

APPLICANT: Anwer, M.

PRICANT: Anwer, M.

APPLICANT: Anwer, M.

APPLICANT: Anwer, M.

APPLICANT: Anwer, M.

APPLICANT: Anwer, M.

PRICA FILING DATE: 1001-01-24

PRIOR FILING DATE: 1999-05-20

NUMBER OF SEQ ID NOS: 1757

SOFTWARE: FactSEQ for Windows Version 3.0

SEQ ID NO 1668

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Mismatches
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1e+06;
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US-10-462-262-235
; Sequence 235, Application US/10462262
; Publication No. US20040009534A1
; GENERAL INFORMATION:
; APPLICANT: Sato, Aaron K.
; APPLICANT: Dawson, Bruce M.
TITLE OF INVENTION: PROTEIN ANALYSIS
; FILE REFERENCE: 10280-052001
; CURRENT APPLICATION NUMBER: US/10/462,262
; CURRENT FILING DATE: 2003-06-16
; PRIOR APPLICATION NUMBER: US 60/388,642
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 430
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 235
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Mismatches
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; OTHER INFORMATION: Xaa=unknown amino acid
US-10-351-641-1668
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Pred. No.
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No
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Best Local Similarity 100.0%;
Matches 6; Conservative
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; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (6)..(7)
; OTHER INFORMATION: Xaa
US-10-664-021-80
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LOCATION: (2)...(4)
OTHER INFORMATION: Xaa can be any naturally occurring
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Pred. No. 1e+06;
0; Mismatches (
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US-10-664-021-80
is Sequence 80, Application US/10664021
is Publication No. US20040076637A1
igeneral information:
if TITLE OF INVENTION: HIV-Derived HR1 Peptides Modifile OF INVENTION: Their Use in Therapy to Interpretation of Interpretation of Interpretation in Immunodeficiency Virus
if ILE REFERENCE: TRM-001
if CURRENT APPLICATION NUMBER: US/10/664,021
if CURRENT FILING DATE: 2003-09-16
if PRIOR FILING DATE: 2002-09-27
if NUMBER OF SEQ ID NOS: 82
if SOFTWARE: Patentin version 3.2
if SEQ ID NO 80
if LENGTH: 7
                                                                                                                   Sequence 67, Application US/10664021
; Sequence 67, Application US/10664021
; Publication No. US20040076637A1
; GENERAL INFORMATION:
; APPLICANT: Trimeris, Inc.
; TITLE OF INVENTION: HIV-Derived HR1 Peptides Mod; TITLE OF INVENTION: Their Use In Therapy to In; TITLE OF INVENTION: Immunodeficiency Virus; FILE REFERENCE: TRM-001
; CURRENT APPLICATION NUMBER: US/10/664,021
; CURRENT FILING DATE: 2003-09-16
; PRIOR FILING DATE: 2002-09-27
; NUMBER OF SEQ ID NOS: 82
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 67
; LENGTH: 7
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EATURE:
                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: synthesized; Xaa
FEATURE:
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ilarity 100.0%;
Conservative 0
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LOCATION: (2)...(4)
OTHER INFORMATION: Xaa
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OTHER INFORMATION: Xaa
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Matches 6; Conser
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US-10-664-021-67
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OTHER INFORMATION: synthesized; Xaa is any amino acid
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ORGANISM: Glycine max
FEATURE:
NAME/KEY: unsure
LOCATION: (1)..(84)
OTHER INFORMATION: unsu
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ORGANISM: Artificial
FEATURE:
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Best Local Similarity
Matches 6; Conser
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US-10-664-021-62
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; Sequence 62, Application US/10664021
; Publication No. US20040076637A1
; GENERAL INFORMATION:
; APPLICANT: Trimeris; Inc.
; TITLE OF INVENTION: Their Use In Therapy to Inhibit Transmission of Human
; TITLE OF INVENTION: Immunodeficiency Virus
; FILE REFERENCE: TRM-001
; CURRENT APPLICATION NUMBER: US/10/664,021
; CURRENT FILING DATE: 2003-09-16
; PRIOR APPLICATION NUMBER: US 60/414,514
; PRIOR PILING DATE: 2002-09-27
; NUMBER OF SEQ ID NOS: 82
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 62
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Pred. No. 1e+06;
3; Mismatches 0
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r. Thr,
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Thr, Val, or Tyr
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1, Arg, Ser,
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FEATURE:
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100.0%; P.
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Met, Asn, Gln,
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LENGTH: 8
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
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6; Conservative
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Arg,
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; LOCATION: (8)...(0)
; OTHER INFORMATION: Xaa
US-10-462-262-235
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LOCATION: (6). (6)
OTHER INFORMATION: Xaa
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ORGANISM: Artificial
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LOCATION: 5
OTHER INFORMATION: 1
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OTHER INFORMATION:
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NAME/KEY: VARIANT
LOCATION: 1
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Matches 6
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RESULT 11
US-10-424-599-157766
US-10-424-599-157766, Application US/10424599
Sequence 157766, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: La Rosa Thomas J
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated W:
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REPERENCE: 38-21(53233)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 157766
LENGTH: 84
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i Sequence 69, Application US/10664021

i Scquence 69, Application US/10664021

i Publication No. US20040076637A1

i GENERAL INFORMATION:

i APPLICANT: Trimeris, Inc.

i TITLE OF INVENTION: Their Use In Therapy to Inhibit Transmission of Human

i TITLE OF INVENTION: Immunodeficiency Virus

i TITLE OF INVENTION Immunodeficiency Virus

i TITLE OF INVENTION NUMBER: US/10/664,021

CURRENT APPLICATION NUMBER: US 60/414,514

PRIOR APPLICATION NUMBER: US 60/414,514

PRIOR FILING DATE: 2002-09-27

NUMBER OF SEQ ID NOS: 82

SOFTWARE: PatentIn version 3.2
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FEATURE:
NAME/KEY: misc_feature
LOCATION: (8). (8)
OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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US-10-424-599-157766
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Pred. No. 1.4e+03;
0; Mismatches 0;
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1e+06;
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Best Local Similarity 100.0%; I
Matches 6; Conservative 0;
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ilarity 100.0%;
Conservative 0
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LOCATION: (5).7(7)
OTHER INFORMATION: Xaa can be
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                                                  OTHER INFORMATION: synth FEATURE:
NAME/KEY: misc feature LOCATION: (2)...(2)
OTHER INFORMATION: Xaa C FEATURE:
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NAME/KEY: misc_feature
LOCATION: (3)..(3)
OTHER INFORMATION: Xaa
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NAME/KEY: misc feature
LOCATION: (1)..(1)
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LOCATION: (4)...(6)
OTHER INFORMATION: Xaa
0-664-021-78
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5; Conserv
           TYPE: PRT
ORGANISM: Artificial
FEATURE:
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Best Local Similarity
Matches 5; Conser
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FEATURE:
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i S-quence 79, Application US/10664021

j Publication No. US20040076637A1

j GENERAL INFORMATION:

i APPLICANT: Trimeris, Inc.

i TITLE OF INVENTION: Their Use In Therapy to Inhibit Transmission of Hums

i TITLE OF INVENTION: Immunodeficiency Virus

i TITLE OF INVENTION: Immunodeficiency Virus

j FILE REFERENCE: TRM-001

CURRENT FILING DATE: 2003-09-16

j CURRENT FILING DATE: 2002-09-27

NUMBER OF SEQ ID NOS: 82

SOFTWARE: PatentIn version 3.2

SEQ ID NO 79

LENGTH: 6
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FEATURE:
NAME/KEY: misc_feature
LOCATION: (2)...(4)
OTHER INFORMATION: Xaa can be any naturally occurring amino-10-664-021-69
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US-10-664-021-78

; Sequence 78, Application US/10664021
; Publication No. US20040076637A1
; GENERAL INFORMATION:
; TITLE OF INVENTION: HIV-Derived HR1 Peptides Modified to
; TITLE OF INVENTION: Their Use In Therapy to Inhibit Tran;
; TITLE OF INVENTION: Immunodeficiency Virus
; TITLE OF INVENTION Immunodeficiency Virus
; TITLE OF INVENTION NUMBER: US/10/664,021
; CURRENT APPLICATION NUMBER: US 60/414,514
; PRIOR APPLICATION NUMBER: US 60/414,514
; PRIOR FILING DATE: 2002-09-27
; NUMBER OF SEQ ID NOS: 82
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 78
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1e+06;
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Pred. No. 1e+06;
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; LOCATION: (3)..(5)
; OTHER INFORMATION: Xaa can be
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LOCATION: (1)..(1)
OTHER INFORMATION: Xaa
FEATURE:
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Pred. No. 1e+06;
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                                            APPLICANT: Trimeris, Inc.
APPLICANT: Trimeris, Inc.
TITLE OF INVENTION: HIV-Derived HR1 Peptides Mod TITLE OF INVENTION: Their Use In Therapy to Inl TITLE OF INVENTION: Immunodeficiency Virus FILE REFERENCE: TRM-001
CURRENT APPLICATION NUMBER: US/10/664,021
CURRENT FILING DATE: 2003-09-16
PRIOR APPLICATION NUMBER: US 60/414,514
PRIOR APPLICATION NUMBER: US 60/414,514
PRIOR PILING DATE: 2002-09-27
NUMBER OF SEQ ID NOS: 82
SOFTWARE: Patentin version 3.2
SEQ ID NO 74
LENGTH: 8
TYPE: PRT
ORGANISM: Artificial
FEATURE:
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Sequence 74, Application US/10664021
Publication No. US20040076637A1
GENERAL INFORMATION:
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modulating fusogenic events and intracellular processes involving coiled-
coil peptide interactions. Other uses include preventing, treating and/or
diagnosing disorders involving fusion events (e.g. modulation of
neurotransmitter exchange and sperm-egg fusion), intracellular processes
involving coiled-coil peptides (e.g. bacterial infections) and viral
infections that involve cell-cell and/or virus-cell fusion (e.g. viral
infections caused by human immunodeficiency virus, respiratory syncytial
virus, Epstein-Barr virus, hepatitis B virus, Mason-Pfizer virus and
polio virus). The enhancer peptide sequence increases the half-life and
reduces the clearance rate of therapeutic peptides, which increases their
efficacy and minimises the incidence and severity of adverse side
effects: In addition, this increases the sensitivity of the diagnostic
procedure in which they are used. (Updated on 06-AUG-2003 to correct OS
field.) (Updated on 11-SEP-2003 to standardise OS field)
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immunogen; peptidomimetic;
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Pred. No. 1.4e+06;
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hapten;
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97US-0049787P.
97US-00876698.
97US-00965056.
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JUDICE J K.
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PHELAN J C.
STAROVASNIK M A
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Wells JA;
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amino acids (a.as) having a first and second terminal residue both flanking an internal sequence of 6 a.as, where the terminal residues have a side chain that are linked to each other forming a locking group to form a constrained helical peptide. (I) is useful for preparing antibodies that prevent viral membrane fusion, as haptens, preferably attached to a carrier, for use as an immunogen to raise antibodies that or infected with HIV, to create combinatorial constrained helical peptide or infected with HIV, to create combinatorial constrained helical peptide in bracises that are useful in chemical selection systems, to isolate the binding determinants from alpha-helical binding determinants from alpha-helical binding determinant of a known protein serve as a structural model for the design of peptidomimetics, to replace intact binding proteins or protein binding domains in the affinity purification of ligands, to minical proteins or protein binding domains in the affinity purification of ligands, to minical antibody clones with a selected binding activity from phage display combinatorial libraries, to provide conformationally stable variants of peptides or proteins which exhibit floppy or unsetable alpha-helical secondary structure at one or more sites in unrestrained form under conditions of interest. This is the amino acid sequence of an HIV envelope protein gp41 peptide used in the creation of the locked helix peptides of the invention
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Mismatches 0;
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Pred. No. 4.8e+
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The invention describes a constrained helical peptide compound (I) comprising a first constrained helical peptide comprising a sequence of 8 and second terminal residue both flanking an internal sequence of 6 a.as, where the terminal residue both a side chain that are linked to each other forming a locking group to form a constrained helical peptide. (I) is useful for preparing articled to a carrier, for use as an immunogen to raise antibodies that prevent viral membrane fusion, as haptens, preferably attached to a carrier, for use as an immunogen to raise antibodies that the reached to a carrier, for use as an immunogen to raise antibodies that the are useful in chemical selection systems, to isolate the binding determinants from alpha-helical binding determinants from alpha-helical binding determinants from alpha-helical binding determinants from alpha-helical binding determinants group in the affinity purification of ligands, to mimic for the design of peptidomimetics, to replace intact binding proteins or proteins to selectively raise polyclonal or monoclonal antibodies against such individual epitopes for isolating synthetic antibody clones with a selected binding activity from phage display combinatorial libraries, to provide conformationally stable variants of peptides or proteins which exhibit floppy or unstable alpha-helical secondary structure at one or more sites in unrestrained form under conditions of interest. This is the amino acid sequence of an HIV contaction gp41 peptide used in the creation of the locked helix
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; immunogen; peptidomimetic;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              red. No. 4.8e+02;
Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 26; Pred. No.
           l peptide comamal at
                                                                    English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABU57818 standard; peptide; 46 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             virus; H
hapten;
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97US-0049787P.
97US-00876698.
97US-00965056.
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                                                                    23B; 180pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        entry)
           Novel constrained helical therapeutically treating rimmunodeficiency virus.
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JUDICE J
MCDOWELL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              \boldsymbol{\omega}
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                                                                     Fig
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16-JUN-1997;
16-JUN-1997;
05-NOV-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    envelope
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           46
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                                                                     Disclosure;
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Local S
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(JUDI/)
(MCDO/)
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viral
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ABU5781
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The invention describes a constrained helical peptide compound (I)

comprising a first constrained helical peptide comprising a sequence of a mino acids (a.as) having a first and second terminal residue both among a locking sequence of a as, where the terminal residues have flanking an internal sequence of 6 a.as, where the terminal residues have a side chain that are linked to each other forming a locking group to constrained helical peptide. (I) is useful for preparing antibodies that prevent viral membrane fusion, as haptens, preferably attached to a carrier, for use as an immunogen to raise antibodies that have a diagnostic use, as a vaccine for treatment of patients at risk of or infected with HIV, to create combinatorial constrained helical peptide or infected with HIV, to create combinatorial constrained helical peptide or infected with HIV, to create a selection systems, to isolate the binding determinants from alpha-helical binding determinants from alpha-helical binding determinate in an alpha-helical binding domain of a known protein serve as a structural model for the design of peptidomimetics, to replace intact binding proteins or proteins to selectively raise polyclonal or monoclonal antibody clones with a selected binding activity from phage display combinatorial libraries, to provide conformationally stable variants of peptides or proteins which exhibit floppy or unsetable alpha-helical conditions of interver minimally is the amino and or more mine sites in unrestrained form under conditions.
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                                                                                                                                ul for prophylactically infected with human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        compound;
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                                                       Starovasnik MA;
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viral membrane fusion; hapten; immunogen; peptidomimetic; gp41;
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hes 0;
                                                                                                                                 compound useful : risk for or in
                                                           Phelan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 26; DB 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
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                                                          RS,
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                                                                                                                                                                                               Disclosure; Page 36; 180pp; English
                                                                                                                                                   at
                                                          Mcdowell
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                                                                                                                                therapeutically treating mammal atimmunodeficiency virus.
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                A,
               Σ
                                                            Judice
PHELAN J C.
STAROVASNIK 1
WELLS J A.
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                                                                                                        WPI; 2003-182525/18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           envelope protein.
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                                                            Braisted AC,
Wells JA;
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Best Local S
Matches 6
 (PHEL/)
(STAR/)
(WELL/)
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Human immunodeficiency
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ntibodies that
ents at risk of
helical peptide
to isolate the
                                                                                                                                                                                                                                                                                                                                    The invention describes a constrained helical peptide compound (I) comprising a first constrained helical peptide comprising a sequence of a major acids (a.as) having a first and second terminal residue both flanking an internal sequence of 6 a.as, where the terminal residues have a side chain that are linked to each other forming a locking group to committee that prevent viral membrane fusion, as haptens, preferably attached to a carrier, for use as an immunogen to raise antibodies that prevent viral membrane fusion, as haptens, preferably attached to a carrier, for use as an immunogen to raise antibodies that are useful in chemical selection systems, to isolate the binding determinants from alpha-helical binding determinate of known proteins for determining whether a binding determinate in an alpha-helical binding determinate of known proteins for determining whether a binding determinate in an alpha-helical binding domain of a known protein can serve as a structural model for the design of peptidomimetics, to replace intact binding proteins or proteins to selectively raise polyclonal or monoclonal antibody clones with a selected binding activity from phage display combinatorial libraries, to provide conformationally stable variants of secondary structure at one or more sites in unrestrained form under secondary structure at one or more sites in unrestrained form under conditions of interest. This is the amino acid sequence of an HIV envelope protein gp41 peptide used in the creation of the locked helix peptides of the invention
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residues have
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                                                                                                                                                                                                                                                                                                                                                         of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              e variants of
                                                                                                                                                                                                                                                  compound useful for prophylactically risk for or infected with human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   locked helix
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        de compound;
gp41;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                              Starovasnik
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immunogen; peptidomimetic;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 26; DB 6; L6
Pred. No. 4.8e+02;
0; Mismatches 0;
                                                                                                                                                                               Phelan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       envelope protein gp41 polypeptide
                                                                                                                                                                               RS,
                                                                                                                                                                                                                                                                                                               English
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                                                                                                                                                                                                                                                  Novel constrained helical peptide c
therapeutically treating mammal at
immunodeficiency virus.
                                                                                                                                                                               Mcdowell
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96US-00743698.
97US-0049787P.
97US-00876698.
97US-00965056.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity 100.0%; 6; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 standard; protein;
                                                                                                                                                                                                                                                                                                               Disclosure; Fig 23A; 180pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           entry)
                                                                       BRAISTED A C.
JUDICE J K.
MCDOWELL R S.
PHELAN J C.
STAROVASNIK M A.
WELLS J A.
                                                                                                                                                                               GK,
                                                                                                                                                                               Judice
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first
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 06-NOV-1996;
16-JUN-1997;
16-JUN-1997;
05-NOV-1997;
                                                                                                                                                                               AC,
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Best Local S
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                                                                                                                                                                               Braisted .
Wells JA;
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                                                                       (BRAI/)
(JUDI/)
(MCDO/)
(PHEL/)
(STAR/)
                                                                                                                                                                                                                                                       Novel
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The invention describes a constrained helical peptide compound (I) comprising a first constrained helical peptide comprising a sequence of 8 amino acids (a.as) having a first and second terminal residue both flanking an internal sequence of 6 a.as, where the terminal residue both a side chain that are linked to each other forming a locking group to form a constrained helical peptide. (I) is useful for preparing antibodies that prevent viral membrane fusion, as haptens, preferably attached to a carrier, for use as an immunogen to raise antibodies that are useful in chemical entertained helical peptide or infected with HIV, to create combinatorial constrained helical peptide or infected with HIV, to create combinatorial constrained helical peptide libraries that are useful in chemical selection systems, to isolate the binding determinants from alpha-helical binding determinate in an alpha-helical binding demains of a known protein can serve as a structural model for the design of peptidomimetics, to replace intact binding proteins or protein binding domains in the affinity purification of ligands, to mimic epitopes in proteins to selectively raise polyclonal or monoclonal antibodies against such individual epitopes for isolating synthetic antibody clones with a selected binding activity from phage display combinatorial libraries, to provide conformationally stable variants of peptides or proteins which exhibit floppy or unstable alpha-helical secondary structure at one or more sites in unrestrained form under conditions of interest. This is the amino acid sequence of an HIV envelope protein graft peptide used in the creation of the locked helix
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Pred. No. 4.8e+02;
); Mismatches 0;
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envelope protein gp41 peptide
peptides of the invention
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97US-0049787P.
97US-00876698.
97US-00965056.
                                               2001US-00854816
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6; Conservative
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JUDICE J K.
MCDOWELL R S.
PHELAN J C.
STAROVASNIK M A
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                                               15-MAY-2001;
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16-JUN-1997;
16-JUN-1997;
05-NOV-1997;
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Human immunodeficiency viral membrane fusion; envelope protein. envelope 10-APR-2003 HIV

Human immunodeficiency virus US2002151473-A1

17-0CT-2002

2001US-00854816 5-MAY-2001; 96US-00743698. 97US-0049787P. 97US-00876698. 97US-00965056. 5-NOV-1996; 5-JUN-1997; 5-JUN-1997; 5-NOV-1997; 16.0 90

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(JUDI/)
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asnik MA; Starov Phelan JC, Mcdowell RS, Judice JK, Braisted AC, Wells JA;

2003-182525/18 WPI;

or useful for prophylactically or infected with human compound u l peptide comamal at Novel constrained helical therapeutically treating mununodeficiency virus.

180pp; English 23A; Fig Disclosure;

The invention describes a constrained helical peptide comporising a first constrained helical peptide comprising a sequence of 8 amino acids (a.as) having a first and second terminal residue both flanking an internal sequence of 6 a.as, where the terminal residues have a side chain that are linked to each other forming a locking group to form a constrained helical peptide. (I) is useful for preparing antibodies that prevent viral membrane fusion, as haptens, preferably attached to a carrier, for use as an immunogen to raise antibodies that the ave a diagnostic use, as a vaccine for treatment of patients at risk of or infected with HIV, to create combinatorial constrained helical peptide libraries that are useful in chemical selection systems, to isolate the binding determinants from alpha-helical binding determinants from alpha-helical binding determinants from alpha-helical binding determinants from alpha-helical binding demains of a known protein can serve as a structural model for the design of peptidomimetics, to replace intact binding proteins or proteins to selectively raise polyclonal or monoclonal antibodies against such individual epitopes for isolating synthetic epitopes in proteins with a selected binding activity from phage display combinatorial libraries, to provide conformationally stable variants of secondary structure at one or more sites in unrestrained form under conditions of interest. This is the amino acid sequence of an HIV convelope protein gp41 peptide used in the creation of the locked helix peptides of the invention

46 Sequence

Gaps ô Length 46; Indels Score 26; DB 6; Le Pred. No. 4.8e+02; 0; Mismatches 0; Similarity 100.0%; E Query Match Best Local S Matches 6

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compound;

gp41;

iIV; vaccine; helical peptide
immunogen; peptidomimetic; gp

HIV; vaccine;

virus; H hapten;

polypeptide

protein gp41